

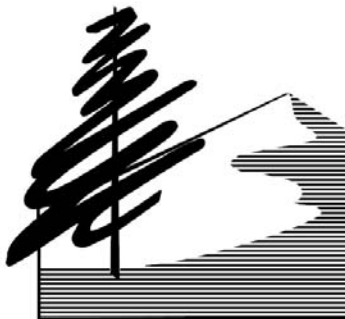
Kelly Ranch
Habitat Conservation Area
(S024)

Annual Work Plan
October 2008 - September 2009

Prepared for:

U.S. Fish and Wildlife Service
California Department of Fish and Game
City of Carlsbad

Prepared by:



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I. INTRODUCTION AND SUMMARY

This work plan has been developed from the guidelines for goals and objectives set forth in the Kelly Ranch Habitat Conservation Area Management Plan dated April 2008 (CNLM 2008). The Management Plan includes management requirements as agreed to by the United States Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG), and additional management activities that the Center for Natural Lands Management (CNLM) feels is appropriate to protect and maintain the natural resources in perpetuity. CNLM holds a conservation easement (since February 2002) on the Kelly Ranch Habitat Conservation Area (HCA) and performs or oversees the tasks identified in the management plan.

The purpose of this work plan is to identify the tasks and budget required to complete the management activities for the upcoming fiscal year that will begin on October 1, 2008 and end on September 30, 2009. Unless otherwise stated, all tasks will be performed by CNLM's Area Manager: Markus Spiegelberg, and Preserve Managers: Patrick McConnell and Jessica Vinje.

Summary of Tasks and Goals for the 2008-2009 Fiscal Year:

- Replace (and install) signs and fix fencing as necessary
- Note all animal species observed, and map locations of any sensitive species
- Count and map sensitive plants throughout the HCA
- Perform habitat assessments for sensitive plant species
- Remove nonnative plant species, especially natal grass (*Melinis repens*), tree tobacco (*Nicotiana glauca*), Saharan mustard (*Brassica tournefortii*) and Pampas grass (*Cortaderia* sp.).
- Follow progress of restoration activities with Planning Systems, Inc.
- Patrol and conduct site enforcement on a regular basis
- Remove historic itinerant encampment trash
- Report and describe data collected and management actions taken on the HCA to the wildlife agencies
- Provide an accounting of funds to be spent in the fiscal year

Appendix 1 (*Task Schedule*) identifies the approximate schedule of tasks for the upcoming fiscal year. Appendix 2 (*Annual Budget*) provides a financial summary for both staff time and costs for the year. The location of the HCA is shown in Appendix 3.

II. MANAGEMENT ACTIVITIES

The following sections identify and describe the activities to be performed during this fiscal year. Based upon the Property Analysis Record (PAR) developed by CNLM to outline long-term management tasks and costs, management activities for the HCA can be broken down into seven tasks: Capital Improvements, Biological Surveys, Habitat Restoration, Public Services, Reporting, Office Maintenance, and Operations. Each of these categories will be discussed below.

A. CAPITAL IMPROVEMENTS

The upkeep of two kiosks with fresh maps, brochures, and public interest materials are the only capital improvements to be undertaken during this fiscal year. Due to damage by vandals, replacement of plexi-glass cover for one kiosk is expected, if paint cannot be removed.

Signing CNLM signs have been posted at all of the major access points and along most of the perimeter to the HCA and a few other notable locations. These signs will be replaced or moved to more appropriate locations as necessary. Each sign explains that the HCA is a dedicated open space, and that OHV activity, mountain biking, dumping and shooting are prohibited. Additionally, several new signs will be posted in areas to discourage the public from accessing and dumping in the HCA.

B. BIOLOGICAL SURVEYS

Monitoring activities at the HCA will continue over the next fiscal year. During the last several years, monitoring included sensitive bird and plant surveys. Due to physical injury, some sensitive plant censusing and mapping did not take place during previous fiscal year as planned. Thus, the remainder of sensitive plant surveys will be accomplished this fiscal year, in addition to habitat assessments. See Kelly Ranch HCA Management Plan (CNLM 2008) for details of habitat assessment methods.

Monitoring during the next year includes focused surveys for sensitive plants, while simultaneously noting any sensitive animals observed. All data will be entered or stored in a Geographic Information System (GIS) database. A brief description of monitoring activities outlined by taxa is provided below:

Sensitive Plant Species The distribution and abundance of sensitive plant species was recorded in 2003. These surveys are repeated every 3 to 5 years depending on the species. Sensitive plant species that require updated mapping and population estimates will be surveyed this year (Table 1). Included in this fiscal year will be habitat assessments for selected sensitive species known to occur on the HCA (Table 1). Surveys will continue to include assessments of the transplanted Orcutt's hazardia (*Hazardia orcuttii*), which will encompass counts of adult transplants as well as seedlings.

No other biological monitoring activities are planned for the fiscal year, aside from incidental wildlife mapping while carrying out other tasks.

C. HABITAT RESTORATION AND MAINTENANCE

Most of the HCA's habitat is good quality, with little disturbance from nonnative species. The most disturbed area is located west of Cannon Road and other small patches of disturbed area exist scattered throughout the HCA. The Kelly Land Company (developer), and later their successor, Shea Homes, is responsible for the enhancement in many of these disturbed areas and has almost completed an enhancement plan that began in 2005 (Planning Systems, 2001). CNLM will follow the progress of the enhancement and restoration activities.

This fiscal year, as with last year, our primary objective will be in the eradication of natal grass. This species was found growing densely in open coastal sage scrub in the center of the HCA. The species is currently of limited spatial extent, probably totaling less than a quarter acre. The goal will be to hand-pull and herbicide where appropriate in the early spring, before the grasses flower. Another weed that has become a problem is Saharan mustard, and any emergent infestations of this weed will be promptly removed prior to seed-set. CNLM has removed large stands of the persistent tree tobacco, and will continue to make efforts to eradicate this species from the HCA.

Table 1. Sensitive plant list, schedule of surveys 2008-2009

Name and Sensitivity	1998 (Merkel & Associates)	2003	2004-2006	2007-2008	Notes
Del Mar manzanita (<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>) FE, CNPS List 1B.1, MHCP.	29 (probably spp. <i>zacaensis</i>)	<50 located in dense habitat and difficult to count		Likely present	Next survey in 2009
Wart-stemmed ceanothus (<i>Ceanothus verrucosus</i>) CNPS List 2.2, MHCP	"in the hundreds"	9		Several locations mapped	Mapping/censusing & habitat assessment 2009
Small-flowered microseris (<i>Microseris douglasi</i> var. <i>platycarpa</i>) CNPS List 4.2	20	not found, probably impacted by development	Not found	Not found	Next survey in 2009
Western dichondra (<i>Dichondra occidentalis</i>) CNPS List 4.2	unknown	common	Several populations found	Several found and mapped	Next survey in 2009
Palmer's grapplinghook (<i>Harpagonella palmeri</i>) CNPS List 4.2	???	Approximately 400	Over 100 individuals	Two areas found, censused and mapped	Census & Habitat ass. 2009
Orcutt's hazardia (<i>Hazardia orcuttii</i>) CT, CNPS list 1B.1 MHCP	none	20 (transplanted from the Manchester HCA)	100 planted in 2004, Approximately 100 censused 2005	106 adults, 3 seedlings 2007 100 adults, 16 seedlings 2008	Census & Habitat assessment 2009

Nuttall's scrub oak (<i>Quercus dumosa</i>) MHCP, CNPS List 1B.1	??? ("lightly scattered")	common		Several mapped	Map/census & habitat ass. 2009
Cliff spurge (<i>Euphorbia misera</i>) MHCP, CNPS List 2.2	"one thicket"	3	Not found	Approximately 16 censused & mapped	Census 2009
California boxthorn (<i>Lycium californicum</i>) CNPS List 4.2				Two stands found & mapped	

* FE= Federally listed endangered; CT= California threatened; MHCP= Multiple Habitat Conservation Program Covered Species; CNPS= California Native Plant Society listing criteria; ???= no initial count made during planning process.

Table 2. Sensitive plants present and threats 2008-2009

Name	Threats*	Actions Planned
Del Mar manzanita (<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>) FE, CNPS List 1B.1, MHCP.	Natal grass Human disturbance	Natal grass control will take place throughout HCA Frequent patrol
Wart-stemmed ceanothus (<i>Ceanothus verrucosus</i>) CNPS List 2.2, MHCP	Fire Human disturbance	Frequent patrol
Small-flowered microseris (<i>Microseris douglasi</i> var. <i>platycarpa</i>) CNPS List 4.2	Saharan mustard Human disturbance	All Saharan mustard found will be hand- pulled, Frequent patrol
Western dichondra (<i>Dichondra occidentalis</i>) CNPS List 4.2	Saharan mustard Human disturbance	All Saharan mustard found will be hand- pulled, Frequent patrol
Palmer's grapplinghook (<i>Harpagonella palmeri</i>) CNPS List 4.2	Saharan mustard Human disturbance	All Saharan mustard found will be hand- pulled, Frequent patrol
Orcutt's hazardia (<i>Hazardia orcuttii</i>) CT, CNPS list 1B.1 MHCP	Saharan mustard Other shrubs Human disturbance	Any threats deemed to decrease recruitment will be controlled
Nuttall's scrub oak (<i>Quercus dumosa</i>) MHCP, CNPS List 1B.1	Human disturbance	Frequent patrol
Cliff spurge (<i>Euphorbia misera</i>) MHCP, CNPS List 2.2	Fire Natal grass Human disturbance	Frequent patrol Natal grass control will take place throughout HCA
California boxthorn (<i>Lycium californicum</i>) CNPS List 4.2	Fire Natal grass Human disturbance	Frequent patrol Natal grass control will take place throughout HCA

*Human disturbance at the HCA is generally low, but is contained by our active patrolling and public outreach.

D. PUBLIC SERVICES

Public service activities include the patrolling of the HCA, consulting with neighbors and Home Owners Association (HOA) about perimeter landscaping and responding to emergencies. However, other opportunities for public service will undoubtedly be forthcoming during the year with local groups and individuals interested in volunteering labor for HCA projects, and class field trips from local schools. CNLM will try to accommodate these activities whenever possible.

1. Patrols Patrols will be performed approximately two to four times per month, and during biological surveys or other HCA activities. Routine trash removal, fence and sign repair are the main tasks. Observations of sensitive species and new human impacts will be gathered during patrols as well. In addition, several truck loads of trash will be picked up during one of the routing patrols and will be transported to the dump during this fiscal year.

2. Emergency Response Staff time has been allocated from the current budget for response to emergencies on the HCA. Such emergencies could include response to wildfires, wildlife problems reported by neighbors and illegal trespass.

E. REPORTING

Reporting requirements include the management of the HCA's database/GIS system, the photo-documentation stations, and the production of various status reports to the USFWS, CDFG and CNLM administration.

1. Database/GIS Management Data derived from routine patrols and photo-documentation will be entered into and maintained in the HCA's existing database/GIS system. Additional databases will be established for the various biotic monitoring programs including the production of historical and current vegetation maps.

2. Photo-documentation Stations Permanent photo-documentation stations were established in 2005 and the photographs were taken in 2006. CNLM will retake these pictures in 2009.

3. Reports

a. Year-End/Agency Reports By the end of December 2009, a year-end report will be prepared by the preserve manager detailing the results of the year's management activities. This report will include recommendations for the continuation of various activities for the following fiscal year and will be submitted to the USFWS and CDFG as required under permit reporting conditions.

b. Annual Work Plan The work plan for the 2009-2010 fiscal year will be formulated by the end of the 2008-2009 fiscal year and will be based upon experiences during previous years' operations. This work plan will be submitted to the USFWS and CDFG.

c. Conservation Easement Compliance Monitoring. The Center manages this HCA pursuant to the terms of a Conservation Easement. We will conduct our annual compliance visit as per CNLM guidelines in the summer of 2009.

F. OFFICE MAINTENANCE

Preserve management will maintain offices in an organized manner to facilitate maximum efficiency. This section of the budget includes funds for general office work, utilities, and telephones, among other items/tasks.

G. OPERATIONS

Operations include the training and professional growth of CNLM personnel, and inspection of the HCA by CNLM administration. Funds have been allocated in the current budget for the Preserve Managers to attend classes or seminars during the 2008-2009 year. Also included within this category of activity is the conduction of employee reviews.

III. WORKLOAD AND BUDGETS

A. SUPERVISION & STAFFING

The Area Manager will be supervised by CNLM's Director of Science, Dr. Deborah Rogers. Tasks and hours will be coordinated by the Area Manager and approved by Dr Rogers. The Area Manager, Markus Spiegelberg will supervise the Preserve Managers, Patrick McConnell and Jessica Vinje. Additionally, hours have been allocated for a Dr. Rogers to assist with document reviewing and scientific research conducted on CNLM preserves.

B. BUDGETING

A budget of \$15,273 has been allocated for this fiscal year and is included here as Appendix 2. Every effort will be made by Preserve Management to allocate time and expenses according to this estimated budget.

IV. REFERENCES

CNLM. 2008. Habitat Management Plan for the Kelly Ranch Habitat Conservation Area. April, 2008.

Planning Systems. 2001. Revised Open Space Natural Habitat Restoration and Revegetation Program, Kelly Ranch "Core Area." Planning Systems #980738.

V. APPENDICES

Appendix 1

2008-2009 Task Schedule

Task	October- December 2008	January-March 2009	April to June 2009	July to September 2009
Nonnative Plant Removal	X	X	X	X
Sensitive Plant Surveys		X	X	X
Habitat Assessments		X	X	
GIS/Database	X		X	
Fencing/Signage	X	X	X	X
Patrolling	X	X	X	X
Reports				X
Public Outreach	X	X	X	

Appendix 2
Annual Budget 2008-2009

Budget Task Detail
Kelly Ranch 2
Annual Budget for Yr 2008-2009
Ongoing Expenses

09/19/2008

Task list	Specific Description	Unit	Reinvestment	Quantity	Rate	Num Yrs	Cost	Contingency	Administration	Total Cost
Biotic Surveys										
Conservation Easement	Compliance	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Plant Ecologist	Field Survey: Cliff	L. Hours		6.00	28.13	1	168.78	0.00	40.50	209.28
Plant Ecologist	Field Survey: Del	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Plant Ecologist	Field Survey: Har.	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Plant Ecologist	Field Survey: Scrub	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Plant Ecologist	Field Survey: Scrub	L. Hours		8.00	33.15	1	265.20	0.00	63.64	328.84
Plant Ecologist	Field Survey: Wart	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Plant Ecologist	Field Survey: Wart	L. Hours		8.00	33.15	1	265.20	0.00	63.64	328.84
Project Management	Manage Project	L. Hours		2.00	42.23	1	84.46	0.00	20.27	104.73
Science Director	Coordination/Overs	L. Hours		8.00	50.00	1	400.00	0.00	96.00	496.00
Sub total							2,308.84	0.00	554.12	2,862.96
Field Equipment										
General	Survey Equipment	Item		1.00	40.00	1	40.00	0.00	9.60	49.60
Vehicle	Transportation:	Mile		1,050.00	0.99	1	1,039.50	0.00	249.48	1,288.98
Sub total							1,079.50	0.00	259.08	1,338.58
General Maintenance										
Dumpster, Rental	Off site Huff	Year		1.00	48.00	1	48.00	0.00	11.52	59.52
Trash Liners	Liners: trash bags	Item		1.00	16.00	1	16.00	0.00	3.84	19.84
Sub total							64.00	0.00	15.36	79.36

NOTE: Because the values are rounded, there may be small errors.

Budget Task Detail
Kelly Ranch 2
Annual Budget for Yr 2008-2009
Ongoing Expenses

09/19/2008

Task list	Specific Description	Unit	Reinvestment	Quantity	Rate	Num Yrs	Cost	Contingency	Administration	Total Cost
Habitat Maintenance										
Exotic Plant Control	Backpack Spray:	L. Hours		24.00	28.13	1	675.12	0.00	162.02	837.14
Exotic Plant Control	Facilitate	L. Hours		16.00	28.13	1	450.08	0.00	108.01	558.09
Exotic Plant Control	Herbicide: Fusilade	Gallon		0.15	80.00	1	12.00	0.00	2.88	14.88
Exotic Plant Control	Herbicide 41%	Gallon		0.25	180.00	1	45.00	0.00	10.80	55.80
Sub total							1,182.20	0.00	283.72	1,465.92
Office Maintenance										
Office Supplies,	paper, printer ink,	Item		1.00	108.00	1	108.00	0.00	25.92	133.92
Rent	Office	Item		1.00	208.32	1	208.32	0.00	49.99	258.31
Telephone	Telephone and	Item		1.00	116.00	1	116.00	0.00	27.84	143.84
Sub total							432.32	0.00	103.75	536.07
Operations										
Audit	Audit	Annual		1.00	142.00	1	142.00	0.00	34.08	176.08
Conferences	Conference	Day		1.00	20.00	1	20.00	0.00	4.80	24.80
Conferences	Retreat expense	Day		1.00	88.80	1	88.80	0.00	21.31	110.11
Insurance	General	Item		1.00	323.00	1	323.00	0.00	77.52	400.52
Other	Staff Retreat AM	L. Hours		2.00	42.23	1	84.46	0.00	20.27	104.73
Other	Staff Retreat PM	L. Hours		2.00	33.15	1	66.30	0.00	15.91	82.21
Other	Staff Retreat PM	L. Hours		2.00	28.13	1	56.26	0.00	13.50	69.76
Other	Vacation, Holiday,	L. Hours		9.00	42.23	1	380.07	0.00	91.21	471.28
Other	Vacation, Holiday,	L. Hours		8.00	33.15	1	265.20	0.00	63.64	328.84
Other	Vacation, Holiday,	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Other	BioOne	Annual		1.00	14.64	1	14.64	0.00	3.51	18.15
Sub total							1,665.77	0.00	399.78	2,065.55

NOTE: Because the values are rounded, there may be small errors.

Budget Task Detail
Kelly Ranch 2
Annual Budget for Yr 2008-2009
Ongoing Expenses

09/19/2008

Task list	Specific Description	Unit	Reinvestment	Quantity	Rate	Num Yrs	Cost	Contingency	Administration	Total Cost
Public Services										
Community Outreach	Meetings	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
Patrolling	Patrol	L. Hours		8.00	33.15	1	265.20	0.00	63.64	328.84
Patrolling	Patrol	L. Hours		72.00	28.13	1	2,025.36	0.00	486.08	2,511.44
Sub total							2,515.60	0.00	603.74	3,119.34
Reporting										
Administrative	Operations AM	L. Hours		16.00	42.23	1	675.68	0.00	162.16	837.84
Administrative	Operations PM	L. Hours		6.00	33.15	1	198.90	0.00	47.73	246.63
Administrative	Operations PM	L. Hours		20.00	28.13	1	562.60	0.00	135.02	697.62
Annual Reports		L. Hours		4.00	42.23	1	168.92	0.00	40.54	209.46
Annual Reports		L. Hours		16.00	28.13	1	450.08	0.00	108.01	558.09
Annual Work Plan	Plan And Par	L. Hours		2.00	42.23	1	84.46	0.00	20.27	104.73
Annual Work Plan	Plan And Par	L. Hours		8.00	28.13	1	225.04	0.00	54.00	279.04
GIS/CAD Management	Data Management	L. Hours		2.00	42.23	1	84.46	0.00	20.27	104.73
GIS/CAD Management	Data Management	L. Hours		16.00	28.13	1	450.08	0.00	108.01	558.09
Report Production	Position paper on	L. Hours		6.00	28.13	1	168.78	0.00	40.50	209.28
Sub total							3,069.00	0.00	736.56	3,805.56
Sub Total for All Categories							12,317.23	0.00	2,956.13	15,273.36

NOTE: Because the values are rounded, there may be small errors.

Appendix 3

HCA Location Maps

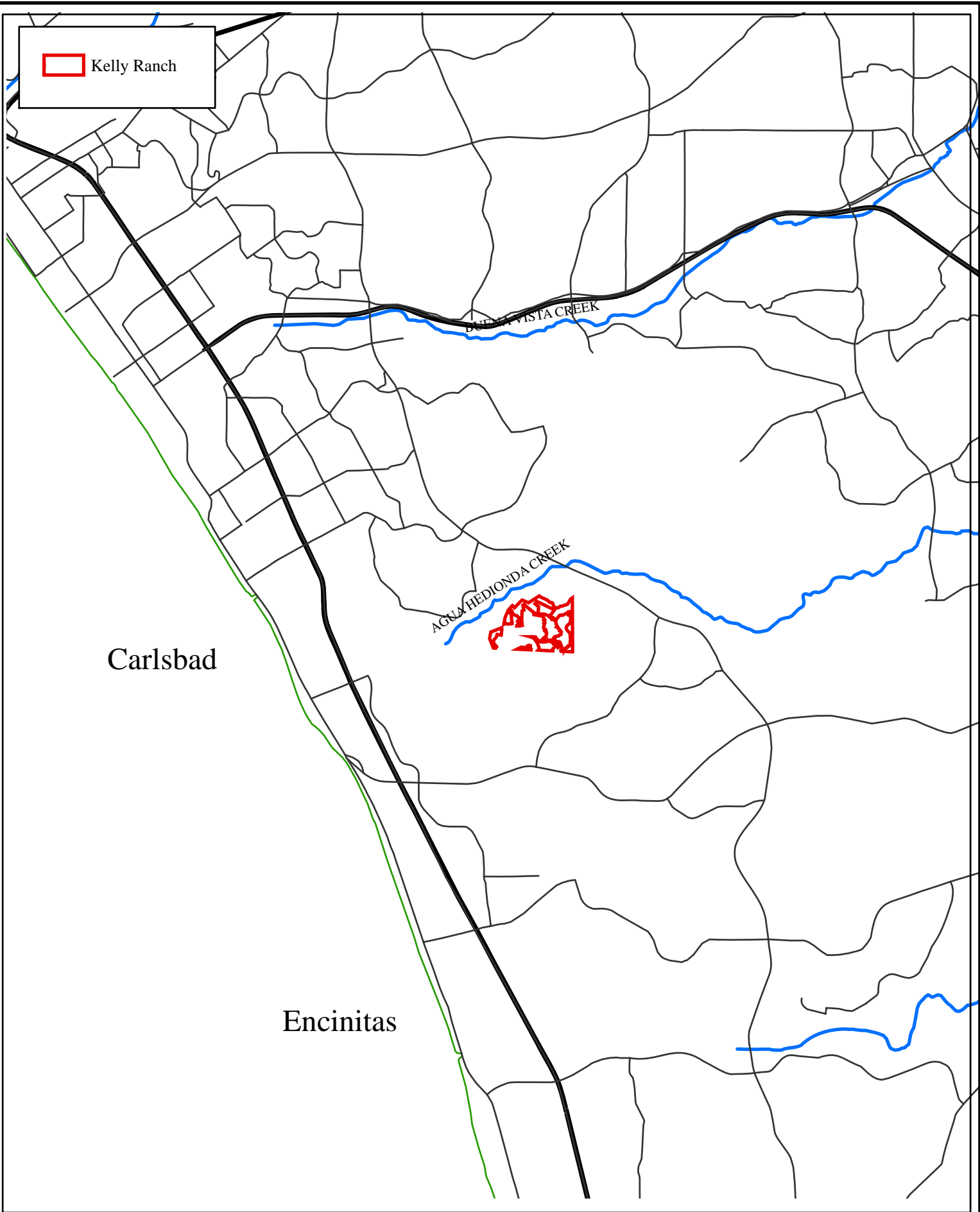


Figure 1
Preserve Vicinity
Kelly Ranch Habitat Conservation Area - Carlsbad, CA





Figure 2
Preserve Location
Kelly Ranch Habitat Conservation Area - Carlsbad, CA

